BAILUN WU, EIT

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Education

University of California, Los Angeles (UCLA) **Los Angeles, CA**

---*B.S., Electrical Engineering* (Sept 2022 - Dec 2024)

- GPA: 3.53
- Honor: Dean's List (Good Standing)

Certifications

Engineering in Training (EIT) Certification **September 2024**

---Issued by the Board for Professional Engineers, Land Surveyors, and Geologists, License #**182862**

Technical Skills

Programming Language: Matlab (Simulink); Python; Embedded C/C++; SystemVerilog; HTML; Github; CSS
Prototyping: Experienced with Arduino; Oscilloscope; Function Generator; Multimeter; Power Supplies; Power Analyzer; Microcontroller
Software: Advanced in AutoCAD Electrical; LTspice; EAGLE; PowerWorld; Microsoft Excel, Office & PowerPoint; Autodesk Inventor
Course: Principles of Power System; Advanced Circuit Analysis (Transistors and RLC circuit Analysis); System and Signal; Principles of Feedback Control; Electromagnetism; Data Structures and Algorithms; Machine Learning; Principle of Semiconductor design; Principles of Nanoelectronics

Work Experience

UVFAB Systems, Inc. **Remote, United States**

---Electrical Engineering Intern (Mar 2024 -Aug 2024)

- Cable & Harness designing for AC modules/Capital Equipment / Sensors / Temp Controllers, digital timers, etc.
- Design electrical/electronic engineering assemblies, layouts/schematics and detailed drawings
- Preparing engineering specification documents, Test specifications and interface with other teams
- Coordinate the procurement and assembly of electrical/electronic components/equipment
- Perform engineering analysis on component failures and interact with vendors for resolution

Engineering Projects

Solar Powered Vehicle **Los Angeles, CA**

---UCLA IEEE Project (Oct 2023 - Aug 2024)

- Power system optimization with circuit analysis of the embedded circuit components (Passive circuit components).
- PCB Design and Solar Panel Application.
- Signal Processing for control system implementation
- Power factor Correction

Micromouse **Los Angeles, CA**

---UCLA IEEE Project (Oct 2022 - Sep 2023)

- PCB design and CAD Application.
- Program complex microcontrollers.
- Algorithm Implementation to solve the Maze
- Build a maze solving robot from scratch.

Electrocardiogram **Los Angeles, CA**

--- ENGR 96E (Jan 2023 - Mar 2023)

- Use concepts and techniques in electrical circuit design and analysis, cardiac electrophysiology, biophysics, microcontrollers, and computer programming.
- Work in teams to design, construct, and test circuit boards capable of measuring human electrocardiograms by capturing data with microcontroller, with computer analysis and display.

Path Following Robot Car **Los Angeles, CA**

---ECE3 Project (Oct 2022 - Dec 2022)

- Utilized the TI Robotics System Learning Kit to implement PID controls on a robotic car achieving 8.3 seconds on a 3.4 meter track.
- Developed code utilizing real-time phototransistor data to send updated movements to the car as a closed-loop feedback system.